11/07/2017 504629934

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4676652

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROBIN Y. BOBBITT	10/23/2017
NICHOLAS IBARLUZEA	11/06/2017
MATTHEW P. JARVIS	10/20/2017
BRIANNA A. KICIA	10/27/2017
MAX W. VOHLKEN	10/21/2017

RECEIVING PARTY DATA

Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION
Street Address:	NEW ORCHARD ROAD
City:	ARMONK
State/Country:	NEW YORK
Postal Code:	10504

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15805173

CORRESPONDENCE DATA

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Total Attackments 40	
DATE SIGNED:	11/07/2017
SIGNATURE:	/Volel Emile/
NAME OF SUBMITTER:	VOLEL EMILE
ATTORNEY DOCKET NUMBER:	END820161079US01

Total Attachments: 10

PATENT REEL: 044047 FRAME: 0742

504629934



PATENT REEL: 044047 FRAME: 0743

Title of Invention: Batch Processing of Computing Elements

As a below named and undersigned inventor, I hereby declare that:
This declaration is directed to the attached application, or (if following box is checked):
[] United States application or PCT international application numberfiled on

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor: Robin Y. Bobbitt	
Signature: Rotin Butit	Date: 10/23/2017
(2) Legal Name of Inventor: Nick Ibarluzea	
Signature:	
(3) Legal Name of Inventor: Matthew P. Jarvis	
Signature:	Date:
(4) Legal Name of Inventor: Brianna A. Kicia	
Signature:	Date:
(5) Legal Name of Inventor: Max W. Vohlken	
Signature:	Date:

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Signature:	Date:
(2) Legal Name of Inventor: Nicholas Ibarluzea **Lichtolas **Ibarluzea** Signature:	11/06/17
(3) Legal Name of Inventor: Matthew P. Jarvis	
Signature:	Date
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Signature: Matthew & Javoris	Date: 10/20/2017
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Signature: May WV8M	Date: 10/21/17

Page 2 of 2

PATENT REEL: 044047 FRAME: 0753

RECORDED: 11/07/2017